

39. Misses now, Cobrich eggs.
- 40 { Spalding Sprs
- 41 { Stanley & Keefe farms —
Guthrie, Miss.
- 42 Shields orals
- 43 Yeager, S Dept & ones,
- 44 Frankfurt
- 45 Jackson & Hume's place
- 46 B. Williams SW of Frankfurt
- 47 McGinnis, Burlington Green —
- 48 49. Cobrich eggs
- 50 E of Frankfurt, Cincinnati
- 51 Sugar Creek
- 52 Watson, Louisiana
- 53 54 Auburn
- 55 Liles, Ladgewood
- 56 Cypress
- 57 Wagon Hacksmith shop
- 58 } Derriman's station
- 59 } Yonox to Henderson
- 60 } farms,
61. Coal on Harley-Henderson
farm, Bedford Cove
Shiel, Guthrie
Spalding Springs.
- 62 Abe McFarland
Hudson River shale
Colitic Devonian
Judge Spalding Der.

1. Lebanon to Morrow
2. Morrow to Lebanon
3. Lebanon to Morrow
4. Morrow, Coniarage
5. Pleasant Plain, Newmills
to dent in the road
6. Marathia, Decatur, Heitt
7. Heitt, Decatur, Ada Run
8. Fairview, Russellville
9. Manchester
10. Carmel
11. Washburn Hill & Slate Hill
12. Stringtown, Point on Rocky Fork
13. Caves W to Powell & Bear Mill
14. Carmel, Barren Hill, St. Albans Mt
15. Jarrington, North Davidson school
16. Sinking Springs & East
17. East to Byington, Peckles
18. Peckles
19. Peckles
20. SW of Sinking Springs
21. Cedar Chapel, SW of Sinking
Springs
22. Crooked Cr. SW of Sinking Springs
23. W of W end of Sinking Springs
25. Portersville, Bainbridge
26. Bainbridge
27. N of Bainbridge, Leesburg
28. New Richmond, Iron Hill
29. Latham, Pigeon Church
30. NW of Hillston
31. W of Hillston, Berryville
32. East of Berryville
33. Berryville to Harriett
- 34 35 Harriett, NE of
36. NE of Harriett, Shiloh Hill
37. Hillston, Sam Houston
38. Lileysville
39. I satelro

Lebanon,
1/4 mi N of Symmes
boundary line.
Dinorthis retrorsa is
8 ft above creek, - about
780

Lebanon.
From hotel 2 mi E on
Wilmington road,
where creek bends north
SE of 767, on east side
of 84° 10' vertical line.
Retrorsa at 765 USF, S.

Lebanon
2 1/2 mi SE of Washington
school road.
Retrorsa at 805 USG S.

Lebanon,
SE 3/2 mi to corner 890
Then E 1 mi to W branch
of Hall's creek.
Retrorsa Leptana at 805
Dalmarella, Pl. ponderosa

Morrow
Horse feed ——— 35 ct
Dinner myself &
driver at
St Charles Hotel — 1.00

Morrison

$1\frac{1}{2}$ mi N, then $\frac{1}{2}$ mi W,
+ $\frac{1}{8}$ mi W to Hall's
Creek,

Dumfries outcrop at
about 810 NSGS.

At about 780 on W
side of bridge, in brown
Anthon, is strongly
rippled down
stream with ripple
marking about NNE.

Lebanon

4 mi SE to Washing-
ton school. Then $\frac{1}{2}$ mi
SE to small bridge
in bend of road.

Returned at 805 NSGS.

Stubbs Mill

$\frac{1}{2}$ mi N, then 1 mi W
to road corner.

Returned at 820 NSGS.

Lebanon

2 mi S to corner 898, then
1 mi W + $\frac{1}{8}$ mi NW to
house.

Returned, Lebanon.

Dalmanella at 830 NSGS.

Lebanon

South of the sale at
southern edge of town.
Nodular layer at top
of Anthon = 5 ft
below bend in road
where road along traction
line turns off NE
on approaching town.

South Lebanon S to
Hoptonville, from S edge
of house $1\frac{1}{2}$ mi E, at
road corner 817.

Top of Mt Anthon full of
Plectropleura (P. serrata) =
802. Above this, the
strata should be even at
850 about. I doubt
whether this actually is
present in hole $\frac{1}{2}$ mi E of 817.

Morrison

$2\frac{1}{2}$ mi SW to Oak
Bridge school road,
From school $\frac{1}{2}$ mi NW
then SW to second
creek crossing.

Returned, Lebanon, lying
Cyllmenia at 860
NSGS, S of road crossing

From East break '5
 2 mi West, about 1/4
 mi E of road corner,
 826; on N side of road,
 Platypholis and
 Cyclophorus at 835.
 Retrospectively at
 860, as well as Sem
 gules.

McDonnell,
 4 mi S, straight line,
 to road corner 1/2 mi
 W of Rossburg, then
 3/4 mi SW to break '5
 SE of 882, on stream,
 Retrospectively + Septoria
 Dalmatella at 848
 USGS.

Comings
 1/40 mi SW, then 1/4 mi NW to
 creek, then E up creek,
 Retrospectively, Septoria
 Cyclophorus above
 Platypholis, 11 ft above creek at road
 crossing. = 865 USGS.

Please ant Plann
 1/2 mi W along RR, then 1/3
 mi NW, 1/8 mi SW to
 cemetery, then W down
 stream.

Retrospectively + Septoria at
 860 USGS about.

Newtownville

Henry Stralder.

Boarding house.

Newtownville station

7.52, 9.52, 12.52 West

7.00 9.00 11.00 East

Ederline

On creek SE of town and
 NE of station.
 No exposure of any kind
 seen here.

Newtownville

W of town, at edge of town,
 Retrospectively at 880 USGS.

Monterey

SW of town to Patterson
 Run, then NW along
 creek road to road
 leading N to pike at
 point W of 887 corner
 Lynx top at 840 USGS.

Marathon

SE of town $\frac{1}{2}$ mi to
East Fork of Little Missouri
River,

Where road turns 3 mi
parallel to W bank of
river, lignite with
Cyrtospira is exposed
at about 870 USGS,
but no fossils occur in
5 ft underlying stratum
to the retrograde horizon
although the lithology
of the rock is all right.

Decatur

5 mi S, toward Heitt,
at house on W side of
road, between letters R to
in ROAD, 1 mi N of Heitt.
Strophomena concolor
& Streptelasma at 890
USGS.

Dinner at Heitt.

myself driven + horse-
fired. 150

Heitt store

N of Heitt.

Stroph. concolor 20 ft
above Leptaena at 840 USGS

Heitt.

South 1 mi. where road
from SE turns sharply
SW.

Stroph. concolor
+ Streptelasma
at 900 USGS, in road,
Possibly in place.

Decatur

SE of road at #4, or

Decatur

E to Warlicks Creek.
Strophomena concolor
in creek on S side of bridge
at 796. From this Leptaena
layer is estimated at 773
USGS about.

E to Ada Run

Strophomena concolor
in (cut) = 55 ft
above creek at bridge.
 $55 + 760 = 815$ ft the
Strophomena
Leptaena at 755 USGS
in the large ripple just
above this level, run-
ning NE

E of Fairview 3/4 mi
to Hills Creek.

Strophomena sunta
+ Anomolobites
casei, at level below
bridge = 765-770.

From this horizon is
correlated at 705-710.

East of Russellville
less than 1 mile,
to road corner
then N to creek
Lynx dellus mouth
of route branch and
Leptaena + dentata
above mouth of

Russellville

1 mi N, 1/2 mi E to
NW fork of Eagle, then
up stream short dis-
tance + up fork
eastward.

Leptaena, dentata
above Lynx, at
870 N S & S.

Manchester,

Dayton road branching
off from Bentonville
road NW 1 mile.

Leptaena + dentata
at about 644 N S & S.

with Strophomena
concreta further
up. Express its — 29

Dayton to Xenia 37

Xenia to Wilmington 1.00

Dinner Wilmington 75

~~Express return~~

Bought other letter
Wilmington to Hillsboro 1.11

My accounts 80

Hillsboro map map

Bainbridge Black shale

Hill hill

Carnal dinner 2.00

McCormick

H A Pavey 5226 Hunter
Ave. Norwood Ohio
To Samuel Coyle

Carnuel

$\frac{1}{3}$ mi E to 2nd house
 on N side of road, then
 S into gully. Black
 shale down to 920.
 At first house W of
 Heads Branch, on S side
 of road. $\frac{7}{8}$ mi E of Carnuel
 top of West Union at 900
 Carnuel.
 $\frac{1}{2}$ mi W, then $\frac{1}{4}$ mi S,
 then $\frac{1}{2}$ mi SW, at highest
 land along road.
 Black shale at 980.

$\frac{1}{2}$ mi farther SW, then
 E up first road
 to abrupt turn in road.
 Black shale at 1020.
 From last locality $\frac{1}{4}$ mi
 SW to Black shale at 990
 and above.

Carnuel

$1\frac{1}{2}$ mi SW in straight
 line to first road
 turning off directly W,
 Black shale at 1000.

Lower part of last
 exposure is greenish
 like Clintonian 30 ft.

Washburn Hill

at road corner directly
 W of line of Washburn Hill
 Black slate at 1000
 N of this road corner the
 Clintonian probably
 cuts down to 980.
 West of last locality
 the Clintonian white
 clay goes down to first
 creek = 980.

West of creek Clintonian
 shows up at 980

From corner 970 N toward
 Franklin Branch the
 Clintonian shows up
 down to 960.

Top of West Union at
 945 just S of Franklin
 Branch

South of road corner 970, $\frac{1}{3}$
 mile, as far as next
 road corner, Black shale
 + Clintonian shows up
 frequently as far down
 as 1020.

Road corner half way between
 945 corner + State Hill
 School. Top of West Union
 at 1005.

Elmer Blackwelder
 Has left V. H. of Illino
 G. one to per rate less each
 Twenty of gone to
 Anti crith again.
 Charles Stirling Adelaide
 Smith South Adelaide
 Stirling

$\frac{1}{2}$ mi W, at road
 Caves by Hillstrom ss. at
 1040, even top of road
 ss. which may be
 M. more

Rapids School
 $\frac{1}{4}$ mi E of house
 Top of road at 1020.

Point

$\frac{1}{4}$ mi E, $\frac{1}{4}$ mi W to
 Rapids Falls, then E 1 mi
 to where lane turns off N.
 Beyond this $\frac{1}{10}$ mi E,
 Here base of Knox black
 shale top of same is at 845
 and top of M. more by
 here is at 835.

Point

$\frac{7}{8}$ mi E, S of pit on S
 side of Point Creek.
 M. more up to 850.

Caves

$\frac{1}{10}$ mi E, along road
 going south
 West Union on V. H. more
 at 860

Caves

$\frac{1}{2}$ mi W on highest land
 east of house on N. side of
 road.

Black shale on M. more at
 about 875

at next house West,
 $\frac{1}{3}$ mi W of Caves, Black
 shale ss. on Hillstrom
 ss. on West Union on M. more

Caves

$\frac{1}{3}$ mi West. West of first
 large gully W of the Caves.
 Top of West Union at
 890 about.

Barrett's Mill

$\frac{1}{2}$ mi NE, before reaching
 corner 935.

West Union ss for up to
 890. Top of M. more.

Beaver Mill

1 mi E, W of Heads
 Branch.

West Union to 860

Carmel

 $\frac{1}{3}$ mi N.

West Union up to 940

Barrett's Mill

 $\frac{3}{4}$ mi SE, $\frac{1}{8}$ mi NW
of Carmel 899.

Top of Monro at 880

Lowest Black

shale at 900.

Sturdy m.

Bridge SE of road corner 881

West Union m. it begins to
rise. 855 about

W. road corner 881.

Black shale at 860

Further west of west

beyond house on N. side

of road - West Union

up to 865

Washburn school

E of = Monro up to

880,

West of Washburn
school before reaching
creek crossing.

Monro up to 880

Road corner 949

at or near 1/2 mi E of
corner.

Monro up to 910

Jarrigan Park.

From road corner NW of

road Jarrigan 1/8 mi,
north to

Monro at 900 = top.

Black shale at 900 or 970
further south.

Jarrigan Park

SW of road corner.

Here is white clay - claystone
beneath Blair Black
shale.

Then NW to road corner

and South 1/8 mile to

West Union up to 935.

Davidson school,

Immediately N of school

Hillston ss. in place

at 935. exact.

Top of West Union

about 10 feet above,

sandstone about 2 ft

thick.

Further north - West

Union at 915 just

before reaching house.

Sinking Springs

1 mi N. then east from
near road corner 845, $\frac{1}{3}$ mi,
Murre up to 880.

$\frac{2}{3}$ mi E of Sinking
Springs side = Black
slate at 900.

Same road as above,
 $\frac{1}{3}$ mi E of Sinking Springs
side.

Murre up to 830
with Black slate in the
10 feet above.

2 mi E of Sinking Sprg
road, where creek road
turns up hill SE.

Murre up to 813.

Corner 741

$\frac{1}{8}$ mi NW. Murre = 790
at Top.

East of corner 741

Top of Murre at 790 for
 $\frac{1}{2}$ miles. Then drops to
775 at gate of lane
on N side of road
at $\frac{3}{8}$ mi E of corner
741

From an school

Valley $\frac{1}{8}$ mi W.

Top of Murre at 785

East of Froman school
the top of the Murre
drops in $\frac{1}{8}$ mile to 760

$\frac{1}{8}$ mi W of corner 714
at junction with
road, highest Murre
is seen at 740.

Byington

opposite Stampish.

Murre up to 655

$\frac{3}{4}$ mi E of Byington

Directly E of bridge

Murre up to 655

Pebbles - Bisher bed

Diaphanostoma niagarensis

Camantoechia neglecta

Schuchertella pinnosa

Schuchertella pinnata - piece
deflected in median area

Camantoechia niagarensis

specific niagarensis

Hemiparvulus delphacanthus

Whitfieldella leading to
Cyrtoschisma.

Dalmatella brevicornis stat.
spinifera, with a nodating
 tube and simple feet
 & cirrus: radiatus?
 With cerata, symmetrical
 but no nodes in the
 annulae.

Rhyndactyla americana
Leptocera rhomboidalis
Dalmanella elongata
Camartoechia longiflatta
 but not the same.
 Probably Port Williams
 specimen.

Whitfiddella cylindrica
 long & narrow typical
 like I saw in the form.

960

1270

1230

Brassfield
Leptocera rhomboidalis
 both of annulae
Pleurodonta sericea
Cyathophyllos I saw.
Dalmanella elegantula
Olaty strophica 2 specimens
 in one.
 Crinoids.

At the locality Port
 Arthur nodes are common
 as types in the cherty
 Brassfield. The tubes
 were not obtained in
 the layers beneath the
 cherty zone.

Orchard
Pentacrinus
Chonetes novae scotiae
Leptocera rhomboidalis
Stenobothrus subplanus
Whitfiddella small.
Pterinea longicauda
 Little mud floors on
 irradiated shores are
 numerous.

20

SW of S. looking N. being
W. looking N. being
Then about 100 yds

14

C. A. A. A.

M. m.

12. 1. 1944

B. 12-18-14

5 ft Indian Island, Calif. 1901.

$7\frac{1}{2}$ in length

1992

The richly fossiliferous
Bellerophon horizon occurs
between 5' to 6' ft above
base of Clinton section,
600 ft of Hornblende locality.
65 ft Bellerophon from base
of Clinton is one of
characteristic fossils as
at locality near Pickles.

12 ~~11~~ 24 active Crinoidae.

Spencer, Geo. John jr.

77 If a girl all the time

It may, after all, be better

under the Spring up.

20 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851,

By David Gordon 12/2

7 1/2 ft. max. long.

ced. g. cl. 1/2 3/4 2 1/2 W. 2

W. 2nd St. San'dale Park (21)

274 ⑧ *Staphylinidae* sp. cc

1122 - 1123

Level of knowledge 905

1st wheel 2. Pantanulus

By order of the Board of Directors

H. hystrax, *legals* 7

Shantapur

247 Measure Gillog? with

03. 12. 1944

14. $\frac{1}{2}$ Whitehead Unkn'd

3.5. *Winkel der Gitter*

2. Artid Bishan Chet

20 17 Thursday, B. School,

27 1/2 1000 1000 1000

Ex. 799

Strong Shanty Spacing

Small cells of some

Chas. J. Smith Co.

2) $\frac{1}{2} \text{ kg} \cdot \text{m}^2 \cdot \text{s}^{-2} = \text{J}$

16 1/2 ft. upper part more ash'd.

1/2 Bushels

5/12 12:00 PM 12:00 PM 12:00 PM

[illegible]

5 1/2 x 4 inch fossiliferous limestone

3 1/2 hours

1944

2' 11" 1/2

5 1/2 ft. covered by rock.

N of Crooked creek,

Sinking Springs road.
 2 ft. 1. Caliche for 100 ft. most
 3 ft. massive limestone
 4 ft. clay shale.
 15 ft. Massive limestone,

SW of Sinking Springs, at
 Homestead locality,
 Both bridge and base
 of Basha east of bridge
 are 21 feet above
 creek (725 ft above sea
 level) = 746 ft for
 bridge level.

89.5 ft indurated arg. layer = 762
 Lingulelites = 21 feet
 above bridge level 773

37 feet above bridge, massive
 limestone, white, with
 Cladophora was base
 of mound 783

58 feet to top of massive
 ledge. 804

64 feet = base of next
 massive l. ledge 810

73 feet to top of thin
 massive l. which
 may be base of m. l. 819

78 ft. Base of marl cliff
 much brecciated 824

96 ft to top of Marl with
 Halysites mex. 842
 small called Favosites
 Stromatopora.

First road N of East exposure
 16 ft above bridge is
 richly fossiliferous
 cherty horizon.
 Bridge = 758 + 16 = 774
 for Lingulelites.

Base of Basha over
 indurated clay layer
 at this road crossing
 1/2 mi N of Homestead
 locality = 755

Going E from bridge 758
 the corner of mined rock
 with Cladophora begins
 at 784

This corner of mined
 rock is exposed on

limb only as far as
as 792,

Interal without expr.
were up to 799

Bishop like rock
comes next.

At next level 807
there is a layer of
more coarse grained
layer.

At next level there is
a fine grained lime
stone that in
which I found
Pentamerus etc.
where. 810.

Next up to brecciated
rock. 822

White limestone, in
part dense, and in
part brecciated at 844

(Highest exposure: 849
Top of land 854

4/6
10.5

West of Porter's Mill.

Road corner 853 Bituminous

Metagal nms 844

Top of bluff 837

Base of projecting ledge. 829

Cladipnace, 819-823

Base of l. exposure 816

Bridge at Mill 801

East of Porter's Mill.

Opposite house 860

Base of limestone, rock. 843

Top of stromatopora rock. 838

Base of rock above face. 834

Top of falls 828

Base of massive l. 817 Cladipnace

Base of l. exposure 811

Bainbridge Over

Quarry $3\frac{1}{4}$ mi S E of town
center.

Top

1160 Sunbury exposed 12 ft.

1148 Berea exposed 14 $\frac{1}{2}$ ft

1134 Bedford + unexposed 105 ft.

(10 ft clay at base of Bedford)

1030 Black shale calculated 290

Bainbridge 1/2 mi S.
 Juster Hill section.
 Snythy shale = 18 ft
 thick.

Purple clay shale
 abundant from 1245
 to 1220 and occurs
 also, possibly by dipping
 down to 1170. This is
 the purple and light
 green shale in the
Conaway school area,

Above 1245 to 1300
 is considerable thin
 sandstone = Gray shaly

Napier Nipkow

Greenfield 245 PM Hills

7.38 AM local

7.38 East

Bainbridge

Monroe RR station,

Monroe along RR

N of river, above

black level.

Out crop in creek S of
 Humboldt station
 about 100 yds N
 at least S of house on
 E side with good
 exposure leading off
N of house eastward.

N of Humboldt about
 a mile in Monroe
in creek by RR.

Fruitdale, then road
 crossing,

Geeshog, 1 mi E at

intersection of creek N of RR

Orinoides & Trilley

Small called Favosites

Cladophora

Small ribbed *Strophomena reticulata*

Platystrophia with 2 lobes
 sinuous and 7 or 8 on each
 side of sinuous

Plyonchotaria like form
 with 2 plications only
 in fold.

Leptæna

Spotted for *Wassonella* etc

Coronula rapidly entering

Base of Lillyman
 6 1/2 ft transition rock, indurated
 & clay layers in the bedded
 increasing to 12 ft up the
 Probably an unconformity
 11 ft shaly argillaceous
 rock, *referred to as?*
 creek

The Lillyman is
 massive here, crossbedded
 crinoidal and with
 Cl or chert nodules and all
 fossils found at the
 confluence of the
 creek

New Vienna
 Sugar Hill, N 1 mi
 then NE 1/2 mi to
 Grassy quarry.
 Small called Syringopora
 as at Cedarville
 Spring field
 Ceryx crinita, few
 strong nodes as at
 Spring field.
 Barrandella ventricosa
 The Stromatolites

with confluent
 cell septal stria
 on a mammillate
 surface as in Irvine
 &c. formation.

Swisschelon Peckles, O.

Muroe at Latham
 just below mouth of
 Grassy Fork, about
 2 feet above creek level.

West end 1 1/2 miles
 W of Pizgah church
 road.

Section
 13 1/2 ft shaly interval
 within 1/2 mile to
 massive limestone

West of Pizgah church
 W of Turkey creek pike,
 8 ft above base of B2 Pennsylvanian
 has 1 specimen, *Coronula*
 in argill. in place
 11 ft massive crinoidal
 → within 1/2 mile to 890
 16 ft crinoidal Mass. of 1875
 10 ft interval B. in
 creek 865

Hillston,

Wilmington road
 1/2 mi SE of Down's Chapel
 Pentamerus in situ at
 1150. with crinoid
 granulate bitumens
 various zone imme-
 diately beneath,
 Stromatolites with radi-
 ate branching, etc.
 in top of bituminous rocks
 Also in some beds - Heliothis
 subtrilobatus, St. ro-
 tiferous, small called
 Favosites, large crinoid
 stems, Artinskian shells.

Irvin School.

3/4 mi SE is Pentamerus
 always at 1152

SE on E side of pike, &
 bituminous rock
 with Cladipora at
 toward base, in
 chert. Other flat ch.
 later, Stromatolites
 small called Favosites.
 Heliothis interesting
 as at locality
 described above

This Arthur's flat chert
 occurs on road
 west of O's gate
 church, 5 mi. of
 Marshall 3 1/2 mi.

Further SE in field
 E of road several
 hundred yards, to
 Bishop, see fossils.
 1 2/3 mi SE of Hillston.
 Spring SE, up pike,
 the very cherty top of
 Bishop occurs from
 1100 to 1120 at mt.

Hillston

1/4 mi from where
 Downville pike leaves
 turn, S of pike.

1120 = base of Pentamerus
 layer at base of Cadam-
 weller

Bordyville, straight road,
 1/2 mi E. Top of platy
 chert, at house to road =
 1000. NS & S - and
 from this point refer-
 ences occur up to 1040.

This should carry the
section up into the
Lower Cedarville
but none was identi-
fied with certainty.

W of Berryville the eleva-
tion reaches 1100 ft or
60 ft above the top of
the cherty Bisha.

$1\frac{1}{8}$ mi E of Berryville
the West Union Crat
Archard contact is
at 930

$1\frac{1}{3}$ mi E of Berryville
on E side of a small hill
as last locality,
the West Union - Crat
Archard contact is
at 912

at $1\frac{3}{4}$ mi E of Berry-
ville the West
Union - Crat Archard
contact is at 905
with the Crat Archard
Bisha clay at the
base at 960
on which I am

not account
Cladophora occurs
in the rock 2 miles
E of Berryville where
the valley heads in
from the south west.

Stromatopora fossils
are common 3 mi E
of Berryville, where
road starts off NE;

It is a small, straight N
to creek, $\frac{1}{2}$ mi. to
Crat Archard seen but
exposures in valley
are few.

Harriet SE to where
main road turns
straight south. Here
Lane leads off E to
at a small house
on Middle Fork.
SE of house, in creek
the Bisha is under-
lain by limestone
at my work as SW of
Silver Spring Springs, at
825 about.

Mostly this house
the whole hill
side is full of
various and many
fossiliferous rock
regarded by me as
lilly for the pres-
ent.

Hornett. 2 miles to
964 corner. then east

Lower Hillstron

969-964 Stromatopora

964-958 covered.

958-952 1/2 hard l. m'ls

Holysites nexos & large
Stromatopora, in situ.

952 1/2 - 952 Bolid

l. with Stromatopora
& Pentamerus in situ

Lower, at 952

Stromatopora & other
Pentamerus. Sponges.

942-949 Rock similar
lithologically to

Pentamerus rock.

Lilly rock. 949-943 1/2

with Cladophora

mentioned at 900

to fossiliferous clay
Oryza actinoides,
Gyalgia.

943 1/2 - 932 Sandy
shaly clay with
Cladophora &
Lepidodermis small & large
beaked.

932-930 Marine
granular Hornett
with lenticular flatellites
& large smooth celled
Favosites & Stromatopora
typical. Same as the
hillside west of
house reached by

going from south
end of Hornett east
1 mile toward Middle
Baugh.

930-925 not exposed

935 rock with large
globular Stromatopora
found in place.

925-905 Same coarse
grained lilly rock
as above

Then on E. side of
the main hill

Cyathoph. nodos. & 2 dignified
5' ft. Silicified Stromatolites
very abundant here.

11 ft. arg. l. m. w. Stromatolites
at top.

3 ft. hard Lillie granular
10 ft. sandy clay clay.

16 ft. coarse grained l. m. w.
many large Favosites.

11 ft. coarse grained l.
no large Favosites.
E of Hillabrook
Lillie hills.

Top of road at Corp. line
5' ft. coarse grained l.
4' ft. not exposed

6' ft. Silicified Stromatolites

16 1/2 Pentamerus in li-
minous limestone
seen to rise = 4 ft. to base

E of Corporation line.

5 ft. Pentamerus li-
like that above

same as above

Plumvian schist, 5 mi
N of Hillabrook, on Carytown
plateau

Schist layer 1145-

30 ft interval

2 ft bituminous l. coarse

9 ft Pentamerus 2' to 1104

Sam Smith 1/2 mi W
to Dryden Sound Hill
then 1/2 mi and 1/2 mi of
road to S. 4 mi. N.E. line
House 1170

Interval 66 ft

Pentamerus layer,
Contact at 1104

Lillie, bituminous, coarse
grained, crinoidal &
full of Chondro. Also
one good Centron flatellite
Strong eastward dip
of Lillie changing
to nearly horizontal
position eastward

Section down creek from
at road med. apothem quarry
SW of Zink quarry, then down
creek to S. 4 mi. N.E. line

Base of Lillie quarry.

64 ft interval

2 ft richly fossiliferous

10 feet basal Birba

My type loc. 107, for
Bishop fossils seems
of not before reaching
fence on going south.
Went down stream,
It is on E side of
hill now.

Lilly Hill,
at highest bend in road
Hillston ss. brown.
Interval 8 1/2 ft.
base of Cedarville bed.
Lilly clay 3 1/2 ft
Lilly l. 12 1/2 ft.
Interval 64 ft
Bed fossil bed 2 ft
Base of Bishop 10 ft.

174 1/2 ft - Crat
Cadd to Hillston ss.

92 ft - Crat bed
to Cedarville.

Saylor collection at 056

Wilmington College
Dutch Leachy cephalo-
lites, heads.

head 8 1/2 inches wide
and 3 3/8 inches long.
from just above
up of *Strobilites* in a culvert
as shown by oriented
stems of *Dedreerinus*,
Michalidini.
Also large long stems
of same, fine for
figuring.

PILLOWS

Estsch eggs

Near Indon 2 mi.
W, a road turns off
N to Buford Cave.
SE of road corner,
on land of Ida
Brown, only a few
hundred feet SE
of road corner, is
the pillow structure
locality on south
side of East Potomac
of Doe Run.

Spalding Springs
 2 1/2 mi W of Springs
 on D. J. Stanley farm,
 W of house, 1/8 mi NW
 along west side of
 creek, in bluffs.

Thin glauconitic Dev. ss.

Massive
 12'

Farmites

Massive
 12'

shale

shale

spirifer

spirifer

massive

massive

6'

5' massive

4 1/2 ss

1/4 mi S of section above
 spirifer + choristites occur in
 top of Dev. ls. under the
 Dev. ss.

Spalding Springs
 1 mi due W, on
 O'Keefe farm, SW
 of house.

Spirifer common
 within 20 ft of
 base of Dev. ss.
 in cross bedded
 limestone.

The D J Stanley locality
 lies 2 3/4 mi exact due
 W of Spalding Springs.

The Shiel Der coal
 locality lies 1 1/4 mi
 exact NW from the D J
 Stanley locality.

The D O Latham coal
 locality is 1 mi W of
 Spalding Springs and
 lies 2 3/4 due North.

This suggests a thinning
 of the top of the
 Devonian section in
 a NW direction, with
 strata being added
 to the top.

X D O Latham				
17	16	15	14	13
				X Hago
				Ship
20	21	22	23	24
X Shiel				
	28	27	26	25
	X Stanley		X Shiel	X Hago
				Ship

Shields $\frac{1}{4}$ mi east,
South of Backley
house.

8 ft Devonian l. massive
Main Acervularia
horizon

17 ft Devonian l. massive
3 ft Favosites branching,
and other Der. l. fossils

5 ft. Devonian sandstone
Basal sandy limestone
at base with Devonian
Spinifer, branching
Favosites, etc.
Fine grained Der. l.
No fossils found in it.

From the Shields coral
locality go $\frac{3}{4}$ mi. E
to locality where ss
at top of Kinnis creek
is absent. Last
year I found Recepta-
culites at top of
Kinnis creek and
Devonian l. above.

Yeager farm. $5\frac{1}{2}$ mi SE of
New London. Upper Platten.

Tetradium large Conn's Ford
form. *Spirifer* *littoralis* x

Picnurdema (Not Spencer Creek) x

Citharus *hickmanii* x

Crinoidites like small x

Subulites a *Prunipora* x

Zygospira small, recurved x

Hindostoma x

Conradella *fimbriata*? x

Plectambonites *sericus* x

Meristis of *punctostriata* var. x

Clathrospira x

gonioproductus x

flat side, conical x

Liospira large Conn's Ford var. x

Stephen W Jones

$1\frac{1}{2}$ NW Frankford

on creek bed, quite

a distance below

top of Platten

Phyechotremis more

small form of beaver

Frankford, Balno RR
level, E of town.

- x *Dalmanella (argata?)*
- Aspidiotas on mullus 20 ft down*
- x *Platystrophia* shells and
- x *Strophomena incurvata*
- x *Plectambonites* cc. 12 ft down
- x *Rhynchotrema macbridei*
- x *Dinnithus meedsi*

Just and above RR
level is *Receptaculites*
common.

Frankford, N 1 1/2 mi. then
E to Schuylkill at
center of 26 (now a
farm house) and
then NE to hill
across small valley

Receptaculites
very abundant above
horizon in which
Plectambonites and
Dalmanella argata
are very common

W.T. Jackson farm 2 1/2 mi
NE of Frankford by Penn creek.

- Plectambonites* cc
- Dalmanella argata* cc
- Dinnithus meedsi*
- Progyrops*
- Cerurus*
- Lichas cucullus*

Receptaculites are present
but contain one just
above the horizon with
fossils listed above.

Henry Hamilton 3/2 mi
due N of Frankford

- Top of Blaine
- Strophomena incurvata*
- Cerurus hypostoma*
- Strophomena incurvata*
- Crinoids* on *Strophomena*

- Base of *Rimous* ridge
- Dinnithus meedsi* x
- Dalmanella argata* 7
- Rhynchotrema macbridei*

W.H. P. creek, 3 mi SW
of Grandford, up W fork
of Penno creek.

Spinifer or common
W of New London.

Thin stained blue
limestone of lower
Devonian, no fossils
5 ft sandstone in layers
1 to 2 inches thick, no
fossils

50 ft estimated thickness
of Cincinnati sh^l shale,
4 ft coarse grained l.
with *Sclerurus* with large
eyes and occipital
furrows between eyes
forming long curves,
also what looked like
Helderia in form
but not certain.

T. of Richmond =
white limestone with
large *Gryph* and
major, *Maclurea*,
but no *Receptaculites*
until further down
the section.

McLure, 1/3 mi West.

Gryph *ampla* large
Strophelasma

Spirifer of *lanceolatus* type

Strophomena *flexuosus*?
Receptaculites

Sclerurus *Americanus*

Bringing Green 2W and
and 3 mi W - Green.

Richmond 1/4 mi NW of
McLure, in bed of stream.

Amie & Miller 3 mi
due S of McLure (1/4 mi
S of Church)

Devonian faulted
against the Bralington

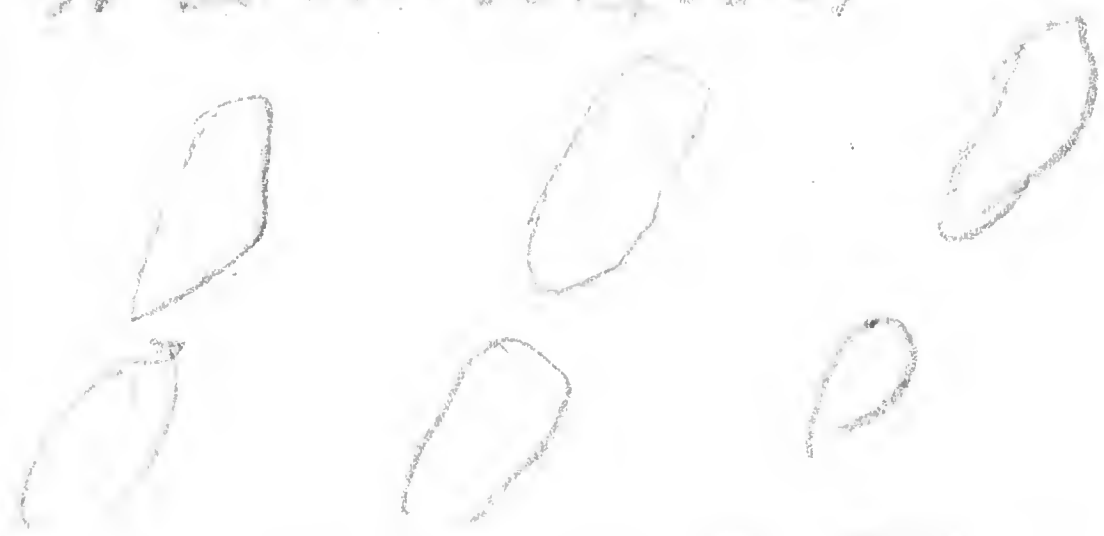
Coeloceras
Goniatites
Orthis *lanceolatus*
I am grip in the
at defects but go on
and study at Bralington

2 mi NW New London
OSTRICH EGGS

at west end are crin-
 rippled limestone blocks
 with 5 elevations in length
 of 8 inches, at top of
 brecciated layer.

The ostrich eggs are
 above the brecciated layer,
 in a much finer grained
 rock.

at this West end the
 fine grained rock is
 apparent to fold over
 the eggs which run in
 a NE direction. The eggs
 are elongated in a
 NE direction.



This elongation
 takes place in a NE
 direction even at the
 west end of the
 exposure but here
 the eggs are closer

together.

The ostrich egg layer is
 $4\frac{1}{2}$ ft thick, including
 the highest part
 of the eggs.

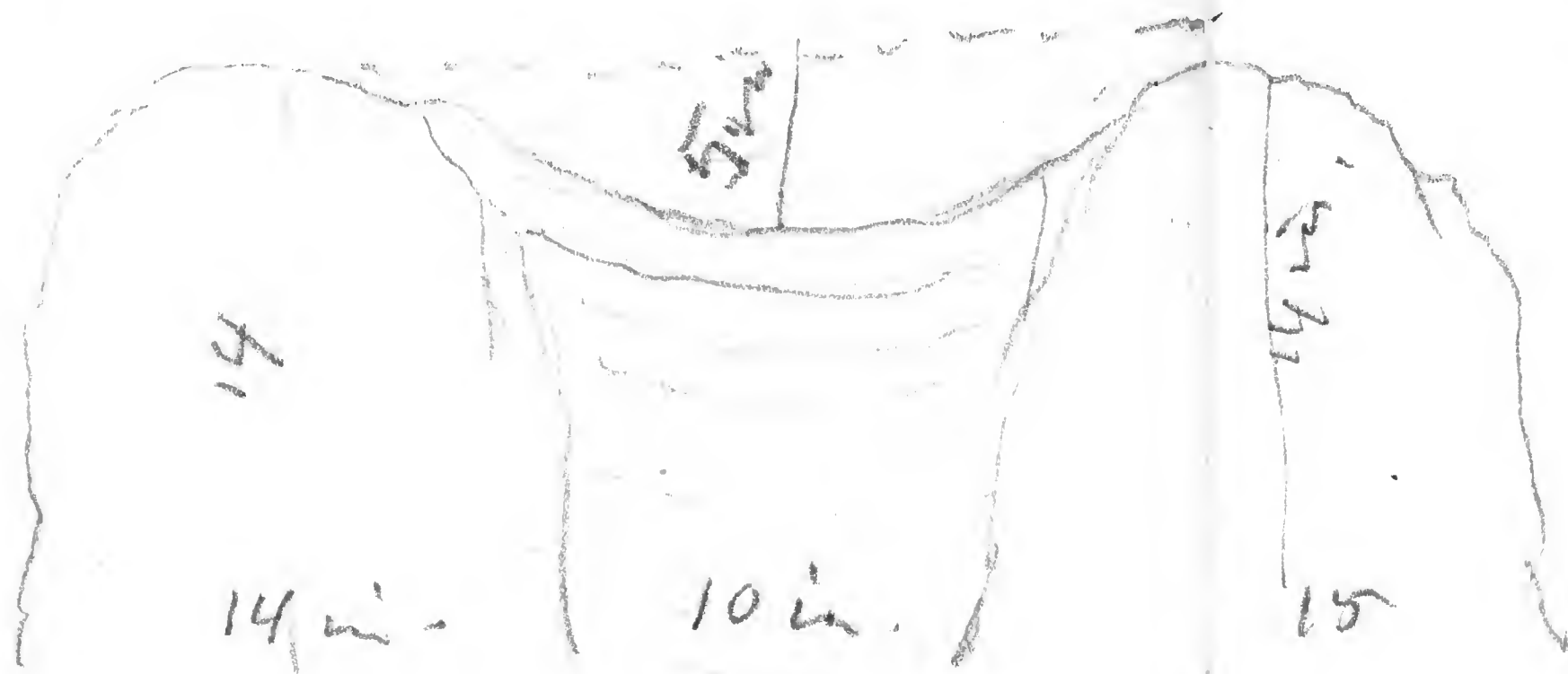
Thousands of eggs per
 $\frac{1}{2}$ when they are
 common to 2 ft occa-
 sionally in their
 shorter diameter.

These are 4 ft in diameter
 and less for the up
 less than $\frac{1}{2}$ of the
 total number.

Ratio of length to width
 = 2 to 3 for the more
 round ones to 1 to 2
 for more elongated
 ones.

Elevation of eggs from
 5 inches, to 12 and 18
 inches.

Ostrich eggs in
 Charles Brown farm
 E of house about 100 yds



Shows that eggs given up
vertically, followed by
deposition hot mass.



Same as above.

Frankford 3 mi E to
Richmond known
with other rhynchonella
Diplothis subquadrata
Platystrophia? etc.
Rafinesquina.

1/6 mi east of crossroad

Sugar Creek
4 1/2 mi east of
Frankford.

Trochospira
major, found
by Weyman

Receptaculites -
Tripteroceles

Is any Platten
in Pike Co?

What are
Weyman
subdivisions.

Where can I
find good local
ities for each.

Where are
Trilobites found,

West of Watson's ^{W. 7/8} ~~W. 7/8~~ ^{17/18}

Burling Green 20 or 25 ft.
 Cyrene Watson
 Watson x Cyrene *
 Noix x

Spring at Goulet's one
 Cyrene or Watson Noix
 Noix

Cyrene in Cal. Wigginton
 place Schuchertella
 Watson = Atrypa

Edgewood for plenty
 of fossils go down
 to John McCune's
 house and then toward
 right and down hill
 from barn, toward
 creek, go down to
 fork and go up on
 next fork. within
 3/4 mi of Edgewood

Rare trilobite in Burdman
 place near Calmar P.O.,
 in bed of branch at
 base of Magnesian

about 3 or 4 feet
 above base. Behind
 his apple orchard.



Go to house, then N
 of house, at foot of
 slope.



Auburn chert beds
 below Receipts and
 beds.
 Dalmanella parvula
 Auburn is in Lincoln
 county.
 Sulphur creek SE
 of Aubrey.

Auburn is type side
 of these limestone

54 B. walking Sea Freight
7:10 AM 3:00 PM S. with 6,00
12:15 N 9:00 PM North.

To Louisiana from B. Co.
9:10 AM 1:40 PM 11:20 PM

Strong West

1:45 AM 1:10 PM 5:50 PM

Antw. quarry. 1/4 mi

N of Auburn Aff. Downing

Form like of Antw.

7 inches light

* R. of fine grained limestone

* Helicotoma

* Columnaria with red surface

* Strophomena incurvata

* Leptæna

* R. of fine grained limestone

* Ballyw. (fossiliferous)

* Narrow cylindrical

* of united structure with

* dirt out septa, which

* may be Beatrixia.

Eph. Downing quarry
E side of State line
1/4 mi N of Tall-fence
N of Auburn

Siler.

Burlington at quarry on
hill 1/4 mi S E of town on
E side of railroad, just beyond
creek. Two fossils lifted on
crest of city hill.

Edgewood locality.

From Edgewood cross
track. N, just E of depot,
and follow road E to
John McCombs house, on
N side of road, just before
reaching bend of road
toward SE. Along this
SE part of road is
exposed Whitish limestone
at one supposed to be
Chert can I meet one
by me (mapped as Niagara)
When road goes E again
is greenish clay shale
containing Strophomena?
and regarded as Hamilton
shale (mapped as
Hudson river).

Fossils shipped parcel post
Louisiana Aug 22,
2 packages, 1st & 2nd

Cyrene

From S E corner of town
lay a road north of east
Here Burlington is exposed
(the bottom of Hudson river
valley)

Pay R R R only

1. ~~Little of Trenton~~
2. ~~Chert of Silice~~
3. ~~Good exposures near~~
~~Yppahona?~~

4. ~~Edgewood. My friends~~

5. ~~Cyrene E of town 1/4 mi~~

6. Good fossil locality
for Hudson river

7. Devonian limestone
in Pike Cr. where?

8. ~~Black slate. Where?~~

9. ~~Quaternary~~

10. ~~Quaternary gravel~~

11. ~~Dev. or Silice~~

12. ~~Yppahona at base~~
~~of Pennsylvania~~

12. ~~St. Lawrence~~

Hagans Hooksmiths shop,
Condit, to Spaulding Springs

1 ft not exposed,

1 ft. Receptaculites.

(Diplomina major medium size.

Murchisonella. Platystrophia albicoma.

2 1/2 ft Receptaculites.

Striptelasma crummen.

1 1/2 ft Receptaculites in it.

Septena gibbosa, 1 mi

1 1/2 ft white fine grained l.

Receptaculites.

Top of continuous section.

2 1/2 ft sandy brecciated Dev. l.

[Stratigraphic base.

14 ft fine grained Dev. limestone.

5 ft clay shale Hudson river.

6 inches hard sandstone Dev.

1/2 ft probably clay shale.

1 ft. Rather coarse grained ss.

[white limestone pebbles

1 ft sandstone with fine grained

RK

From Dor. ss, thinning
out ~~W~~ and the 12-2

Upper Devonian ss,
thickens ~~W~~, 4-20 ft

East edge section 19.

In ~~W~~ G. S. and farm

3 ft Devonian blue dense l.

1 1/2 ft very irregularly bedded
Dor. limestone

1 1/2 ft. clay shale. Dor?

1 ft sandstone. Dor?

CH Xenox, near center of
section 19.

at foot of tree NE of house foundation
crossing.

Fossils. W of N + S road.
horizon collected before.

is rich Corall
West 1/4 mi. at house gate

distance 1/2 mile

Dor. Sandstone (20 ft thick)

exposed about as far N as road

8 ft sandstone forming cliff

2 ft dense limestone, brecciated

irregularly bedded

3 ft sandstone + shale ss.

2 1/2 ft ch. sh. sandstone

Brecciated l.

S of Xenox house

New London N across
Salt river, then N 2 miles
to where stream crosses
road in south edge of
section 13 on Huley
Henderson farms

Top of Devonian l.

exposed W of bridge

Then go down E about

20 feet to exposure

in stream SW of

abe house,

and about on a level

with foot of tree NW of

foundation of house,

house now gone. In

this creek level is

abundant ~~Ma~~ corals

and some other

lower little corals

and a few sponges

This locality is about

1/4 mi E above creek

Then go to foot of

tree mentioned above

Here is fossil ~~Ma~~ corals

again.

Then go down about

10 feet to just beyond

~~at~~ W road crossing

Here *F. variata* is common. The branching form is only a variant of the more globular form. Even the latter is strongly nodose.

Then go down about 25 feet to point S of A. P. Maddox.

Here is base of brecciated Deb. l. A short distance further southeast is top of Devon ss.

This ss. may be 24 feet thick and is exposed as far as point E of C. H. Lewis house.

Below this is at least 4 feet of limestone also regarded as Devonian, since it is brecciated, but it might be Ordovician. See page 58 for additional notes on lower portion.

Husley Henderson farm above Dev. l. and under a fine grained sandstone phase is about 6 inches of most fossil, near middle of which is 1 in. layer of thin shaly coal.

Brford Cove

Protogyna bifurcata

Ceramus m. sp.

Schizocrania

Plectambonites sericeus

Cyrtus bicarinatus

Shild

Spalding Spgs. 1 mi N &

4 1/2 miles W along straight

lines to Acornville

bed 24 mi E of Shild.

DO Lath on Acornville

Spalding Spgs. 2 1/2 mi

and 1 mi W to locality

Spalding Spgs

New London 2 mi N

then 6 1/2 mi W on

straight lines W.

62

Abe McFarland &
Hurlay Henderson

Wenden River shale
Near London NE to
crossing over S act
river, W of R.R., then
angling NE to Salt
River Sm. take Sta-
tion, then E $1\frac{1}{2}$ mi.,
S by 2000 mill.

or

Near London $2\frac{1}{2}$ mi
straight N, then
2 mi straight E in
eastern half of 29,
somewhere.

Very brecciated
white Devonian
lenses at the thin
Hudson river shale
south of the
somewhere near
Hudson River
Place

Judge Spalding
Dr. Gallagher
orally St Peter

63

Shepard H.S. Swamy
Underground
Water of the
Refers to it as
St. Peter's.

Truck up Swallow.

64

65

72

E 1959 Mary



GENUINE LEATHER

1262

